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CLAIM LISTING

1. (previously presented) A method of increasing tissue oxygenation in mammals, comprising applying a superoxygenated composition of oxygen microbubbles consisting essentially of oxygen in a pharmaceutically acceptable vehicle directly to a tissue surface selected from the group consisting of the skin and mucous membranes or other tissue surface external to the body of the mammal for a time sufficient to increase the subepithelial partial oxygen pressure from about 30% to about 120% above baseline pO_2 .
2. (original) The method of claim 1 wherein the mammal is a human.
3. (cancelled)
4. (original) The method of claim 1 wherein the tissue is affected by a medical condition.
5. (original) The method of claim 4 wherein the medical condition is selected from the group consisting of bedsores, wounds, burns, and ulcers.
6. (original) The method of claim 4 wherein the medical condition is a bacterial infection.
7. (original) The method of claim 6 wherein the bacterial infection is identified as an anaerobic pathogen bacterial infection.

8. (cancelled)

9. (cancelled)

10. (previously presented) The method of claim 1 wherein the level of oxygen in the superoxygenated composition is from about 45 ppm oxygen to about 220 ppm oxygen.

11. (original) The method of claim 1 wherein the superoxygenated composition is at about 0°C. to about 34°C.

12. (canceled)

13. (previously presented) The method of claim 1 wherein the pharmaceutically acceptable vehicle comprises water.

14. (previously presented) The method of claim 1 wherein the oxygen microbubbles are between about 2 μ and about 10 μ in diameter.

15. (previously presented) The method of claim 1 wherein the microbubbles are between about 0.6 μ and about 5 μ in diameter.

16. (previously presented) The method of claim 1 wherein the superoxygenated composition is applied under agitation.

17. (original) The method of claim 16 wherein the agitation is provided in a whirlpool bath.

18. (previously presented) The method of claim 1 wherein the pharmaceutically acceptable vehicle allows the superoxygenated composition to be administered is in the form of a cream, lotion or gel.

19. (original) The method of claim 1 wherein the composition is applied by soaking, immersion, spraying, rubbing or aerosols.

20. (new) A method of increasing tissue oxygenation in mammals, comprising direct application of a superoxygenated composition of oxygen microbubbles consisting essentially of oxygen in a pharmaceutically acceptable vehicle to an exposed or removed mammalian organ to increase the tissue oxygenation.

21. (new) The method of claim 20 wherein the pharmaceutically acceptable vehicle comprises water.